

M-SERIES CRAWLER DOZERS
1150M | 1650M | 2050M

CASE
CONSTRUCTION



**THE ROAD
TO POWER**

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EXPERTS FOR THE REAL WORLD
SINCE 1842

M-SERIES CRAWLER DOZERS



EXPERTS FOR THE REAL WORLD SINCE 1842

- 1842** CASE is founded.
- 1946** Allis-Chalmers is the first manufacturer to introduce a torque converter on dozers. In the 30s they had invented permanently lubricated track rollers and sealed and lubricated tracks.
- 1951** First CASE dozer made in cooperation with ATC and promoted under Terratrack brand.
- 1956** CASE acquires ATC and is the first manufacturer to introduce tracks counterrotation on the 1000 Series Terratrack dozer.

HERITAGE

A TRADITION OF INDUSTRY FIRSTS



- 1974** *FIAT acquires Allis-Chalmers and in the 70s introduces the exclusive “Equistatic” geometry on bulldozer machines. In the late 90s CASE launches its exclusive “CASE Extended Life Track” undercarriage.*
- 2008** *CASE introduces the “Dual Path” hydrostatic transmission on the “K” series.*
- 2013** *CASE is the first to introduce SCR technology on the “M” series dozer.*
- 2015** *CASE extends its European product line-up with the new grader range.*
- 2017** *CASE renews its dozer range introducing a completely re-engineered undercarriage and "ULTRA-LIFE" tracks.*

M-SERIES CRAWLER DOZERS

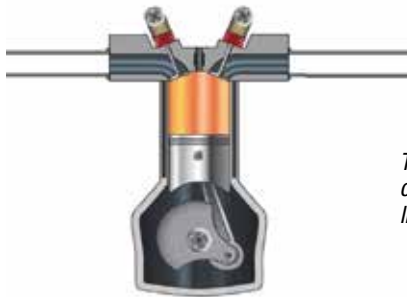
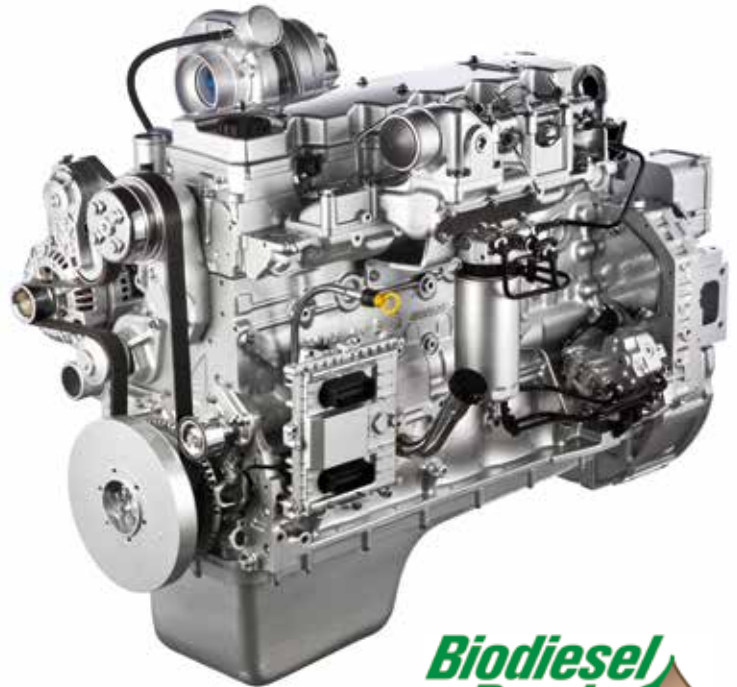


LOW EMISSIONS

Premium Tier 4 technology

The state-of-the-art common rail engine delivers top performance in load response, max torque, power and fuel economy.

The combustion is optimised for maximum efficiency: it occurs at high temperatures and uses 100% fresh, cool air, as the air intake is separated from the exhaust. The turbocharged engine with an Air-to-Air intercooler relies on well proven multi injection technology to maximize torque back-up and fuel efficiency with reduced engine noise and vibrations.



The high temperature combustion produces a very limited amount of particulates



AdBlue is sprayed in the exhaust in order to eliminate NOx through Catalytic Reduction (SCR)

Tier 4 interim

With SCR the engine runs with optimised efficiency. The M Series engine can run with 20% biodiesel, reducing even further its environmental impact. When the tractive effort grows and the rpm tends to drop, the engine power rises by up to 16% to 1800 rpm. The result: constant performance and higher pulling capacity. In addition, the ability to work with high torque at lower engine rpm reduces engine wear.



SUPERIOR COOLING EFFICIENCY

Fresh air breathing engine

The cooling package of the 1650M and 2050M has been redesigned and fitted with a hydrostatic reversible fan. In the new design, the radiators are mounted with no overlap, so that each radiator receives fresh air, maintaining constant fluid temperatures. The hydrostatic fan continuously adapts its speed to match the real cooling demand, reducing power absorption. The reversing mode reduces maintenance needs and lengthens cleaning intervals.

ENGINE AND TRANSMISSION DRAWBAR PULL LEADERSHIP



HIGH RELIABILITY

"ULTRA-LIFE" tracks

The redesigned undercarriage ensures higher stress resistance, and combines optimized dozer balancing for enhanced stability and controllability.

The exclusive "ULTRA-LIFE" technology with lubricated bushing extends chain and undercarriage life in toughest conditions and sensibly reduces the dozer noise level.

Considering that 50% of dozer maintenance costs are due to undercarriage components, the CASE solution brings a clear benefit for the most demanding customers.

M-SERIES CRAWLER DOZERS



VERSATILE CONTROLS

Agile and strong

The operator has full control of the massive power of the M Series dozer. The electrohydraulic joystick enables them to customise the reversing and steering sensitivity for faster and more efficient cycles. The decelerator pedal can be set to reduce either travel speed only or both travel and engine speed.

Automatic blade functions

The advanced electronics functions enable the operator to control specific functions in addition to the standard blade movements:

- the on-board computer can be set directly from the joystick;
- the blade reaction can be set choosing from 3 levels of sensitivity;
- the grading button immediately reduces the speed of the blade by 50% for more accurate soil contour;
- the shaking mode enables the operator to shed material quickly, especially when working with sticky soil.



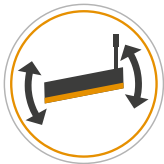
HIGH VISIBILITY

Drive your performance forward!

The M series cab is engineered for operator performance, comfort and safety. The new positioning, further forward on the machine, ensures complete blade visibility. The operator can work with confidence and more productively in every operation. The air suspended seat is easy to adjust, providing every operator with a perfect working position.

The powerful air conditioning system combined with the best-in-class noise level provide an excellent working environment, reducing operator stress during long working days.

CUSTOMIZABLE CONTROLS PRODUCTIVITY BOOSTING ELECTRONICS



BLADE CONTROL SET UP

Flexible performance

The M series is ready to work with the most common blade controls available on the market. The machine can be prepared in the factory for a specific configuration, ensuring perfect wire layout, visibility and component integration, guaranteeing the high standards of reliability of every CASE product are maintained.



HIGH VERSATILITY

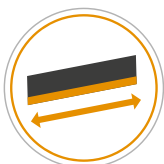
Tools for every task

A wide offering of implements and equipments can be installed on the new CASE dozer:

- Drawbar • 3 shanks parallel ripper
- Front cab protections and grids • Winches predisposition

A choice of blades are available for optimum dozing performance:

- PAT • Foldable PAT (reduces the transport width within 3 m) • Straight • Semi-U



BULLDOZER “EQUISTATIC” GEOMETRY

Balanced pushing effort

All the Bulldozer units offer the patented «Equistatic» system that increases the tilting capability, while reducing the efforts on the pushbeams, increasing the overall frame reliability and reducing the overall wear of components.

QUICK GROUND ACCESS FOR SERVICING



SAFE AND EASY MAINTENANCE

Ground access for servicing

The hydrostatic transmission brings less complexity and lower maintenance requirements than a traditional one. Belly plates on the bottom of the machine provide excellent access to controls and transmission components.

The final drive installation on the main dozer frame enables dismounting while leaving the hydrostatic components in place. The transmission can even be reached through the cab floor, so it can be serviced directly on the jobsite.

The refueling points (Fuel/Ad Blue/Hydraulic Oil) are conveniently placed on the rear of the cab in a well-protected place. The daily maintenance can be done quickly thanks to dedicated steps that make the access easier and safer.

The new single piece main frame enables you to service the main controls easily from the ground, simply opening the wide lateral shieldings.

Oil levels, battery status, electric components, filters and the emergency cut off switches are rationally grouped and clearly identified with colour coding. With the M Series, you can quickly get ready for your working day.





THE SCIENCE BIT

The CASE SiteWatch telematics system uses a high-tech control unit mounted on each machine to collate information from that machine and from GPS satellites. This data is then sent wirelessly through the mobile communication networks to the CASE Telematics Web Portal.



SiteWatch: centralised fleet control benefits at your fingertips

Measure your true asset availability and optimise it

- Eliminate the “phantom fleet”: SiteWatch allows to identify spare units or under loaded machines on each site.
- Able to reallocate units where they are more needed.
- Maintenance planning is easier since the actual machine hours are available and alerts will be sent when a service is due.
- Extend the benefits of SiteWatch to the rest of your fleet: SiteWatch can be installed on the units of other brands as well.

Challenge your Total Cost of Ownership!

- Being able to compare the fuel usage of different machine types will allow you choose the right equipment.
- Save on transport costs with planned and grouped service interventions.
- Peace of mind, optimised uptime and lower repair costs: with preventive maintenance you can be alerted if the engine needs to be serviced and avoid a disruptive breakdown.
- Be able to compare your asset Return on Investment on different sites.
- Your equipment is used only during working hours. You can receive alerts when is in use during the weekend or at night.

More safety, lower insurance premium

- Keep thieves away: dissuade them from attacking your asset because it is geo-localised. SiteWatch is hidden so that thieves can't find it quickly.
- Geo-fencing your asset. You can define a virtual fence and receive an email when a machine exits that perimeter.
- Recover your asset if it is taken away, thanks to the asset's continuous tracking.



MAIN REASONS TO CHOOSE THE M-SERIES



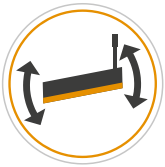
LOW EMISSIONS

- The only dozer with SCR in the market: exceptional efficiency and fuel savings, no losses due to extra cooling needs.



EASY MAINTENANCE

- The functional groups are located beside the cab for quick intervention.
- The transmission components can be checked directly under the cab floor.



BLADE CONTROL SET UP

- Leading brands plug and play blade control system.



HIGH VERSATILITY

- The wide variety of options and bulldozers offers every customer the possibility of creating a machine tailored for the most demanding applications in different environments.



VERSATILE CONTROLS

- Electronically controlled fast material drop from the blade in sticky conditions. All the main working parameters can be set to satisfy customer requirements.





HIGH VISIBILITY

- The cab, positioned 100 mm forward, ensures best-in-class visibility on the blade corner as well as better bulldozer weight distribution.



SUPERIOR COOLING EFFICIENCY

- Double cooling surface and no overlapping of radiators. The reversible fan keeps the exchanging area clean and dramatically extends service intervals.



BULLDOZER "EQUISTATIC" GEOMETRY

- Emphasizes blade tilting while compensating twisting effort on the push beams device.



HIGH RELIABILITY

- CASE "ULTRA-LIFE" tracks dramatically reduces the cost of ownership by 50%. Noise level is also reduced for best-in-class comfort

